

## Product datasheet for MC210114

### Pdxp (NM\_020271) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pdxp (NM_020271) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pdxp
Synonyms:	1600027H05Rik; AB041662; PLPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210114 representing NM_020271 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGCGCTGCGAGCGGCTGCGCGGCCGCGCCCTGCGCGACGTGCTGGGCCAGGCGCAGGGAGTCTGT  
TCGACTGCGACGGAGTGTGTGGAACGGCGAACGCATCGTGCCGGGCGCCCTGAGCTGCTGCAGCGGCT  
GGCGCGGGCCGGCAAGAACACGCTGTTCGTGAGCAACAACAGCCGGCGCGCGGCCCGAGCTGGCGCTG  
CGCTTCGCCCCCTGGGCTTCGCGGGGCTGCGCGCCGAGCAGCTTTCAGCTCCGCGCTGTGTGCCGCG  
GCCTCCTGCGCCAGCGGCTGTCCGGGCCCGCCGACGCATCGGGCGCAGTGTTCGTGCTGGGAGGCGAGGG  
GCTGCGCGCTGAGCTGCGCGCCGCGGGGCTGCGCCTGGCGGGGGACCCCGGCGAGGACCCGCGCGTGC  
GCCGTGCTCGTAGGCTACGACGAGCAGTTTTCTTCTCCAGTTGACCGAGGCGTGCAGCACCTGCGCG  
ACCCCGACTGCCTGCTCGTGCCACCGATCGCGACCCCTTGGCACCCGCTCAGCGACGGAAGCCGGACCCC  
CGGTACTGGAAGCCTGGCTGCCGCGGTGGAGACAGCCTCGGGACGCCAGGCCCTGGTGGTGGGCAAGCCC  
AGCCCTTACATGTTCCAGTGCATCACAGAAGACTTCAGCGTGGACCCCGCCGACGCTGATGGTGGGG  
ACCGCTGGAGACCGACATACTTTGGCCACCGCTGCGGCATGACCACCGTGTCTACGCTCACGGGCGT  
CTCCAGCCTCGAAGAAGCCAGGCCTACCTGACGGCTGGCCAGCGTGACCTTGTGCCTCACTACTATGTG  
GAGAGCATTGCGGACTTGATGGAGGGGCTGGAGGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_020271
Insert Size:	879 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_020271.3</a> , <a href="#">NP_064667.2</a>
<b>RefSeq Size:</b>	2018 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	57028
<b>UniProt ID:</b>	<a href="#">P60487</a>
<b>Cytogenetics:</b>	15 E1
<b>Gene Summary:</b>	Protein serine phosphatase that dephosphorylates 'Ser-3' in cofilin and probably also dephosphorylates phospho-serine residues in DSTN. Regulates cofilin-dependent actin cytoskeleton reorganization. Required for normal progress through mitosis and normal cytokinesis. Does not dephosphorylate phospho-threonines in LIMK1. Does not dephosphorylate peptides containing phospho-tyrosine (By similarity). Pyridoxal phosphate (PLP) phosphatase, which also catalyzes the dephosphorylation of pyridoxine 5'-phosphate (PNP) and pyridoxamine 5'-phosphate (PMP), with order of substrate preference PLP > PNP > PMP (By similarity) (PubMed:24338473, PubMed:24338687).[UniProtKB/Swiss-Prot Function]